USER´S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D´UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D‘USO

cameo®
colours of light

# PAR **56** CAN

**LED CANS** CLP56RGB05

## Thank you for choosing Cameo Lights!

We have designed this product to give you reliable operation over many years.

Please, take a few moments to read these instructions carefully, as we want you to enjoy your new Cameo Lights products quickly and to the fullest.

Further information about Cameo Lights check our website WWW.**CAMEOLIGHT**.COM

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# PAR **56** CAN

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# PREVENTIVE **MEASURES:**

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• Never let the AC cable come into contact with other cables. Handle the AC cable and all mains voltage connections with particular caution!
• Never remove warning or informative labels from the equipment.
• Do not open the equipment and do not modify the equipment.
• Do not connect this equipment to a dimmer-pack.
• Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
• Only use the equipment indoors.
• Do not expose to flammable sources, liquids or gases.
• Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the AC cable by the plug. Never pull out the AC plug by pulling the AC cable.
• Make sure that the available voltage is 230v.
• Make sure that the AC cable is never crimped or damaged. Check the equipment and the AC cable periodically.
• If the equipment is dropped or damaged, disconnect the mains power supply immediately.
Have a qualified engineer inspect the equipment before operating again.
• If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
• If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Cameo dealer for service.
• Only use fuses of same type and rating.
• Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
• Never use any accessories or modifications not authorized by the manufacturer of this unit.
• Choose a location for operation where the unit is protected from vibration and where a fixed mounting position is provided. In case of overhead-mounting, follow appropriate rigging rules and your country's regulations for rigging safety.
• Before plugging the AC cable in the wall outlet, check whether the AC mains voltage and frequency is the same as this product is specified for. Whenever your AC plug should not match the wall outlet, contact your dealer immediately.
• If fluids have spilled into the unit or small parts have intruded the unit, immediately switch off the unit and hand it over to the authorized service for a security check.
• Disconnect the unit from AC supply by pulling the AC plug out of the wall outlet or the unit's AC socket during a thunder-storm in order to avoid any damage on the unit due to AC voltage peaks.
• In cause of not correct function of this unit or damaged AC cable or other damaged parts, pull immediately the AC plug out of the wall outlet and hand the unit over to the authorized service for a security check.
• To meet all aspects of functionality and security during maintenance work to be preformed on this unit, all parts should be replaced by genuine spare parts. Consequently, take care of your dealer or maintenance company to be authorized by the manufacturer.

**OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.
Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.
Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

**WARNING!**

**1. Do not look into the beam from a distance of less than 40 cm (16 inches).**
**2. Do not stare into the beam for extended periods at a short distance.**
**3. Do not view the beam directly with optical instruments such as magnifiers.**

**CAUTION:**

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified personnel.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product´s enclosure that may be of sufficient magnitude to constitute a risk to persons.

The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# INTRODUCTION:



**CONTROL FEATURES**

**PAR 56 CAN**
(CLP56RGB05PS - polished
CLP56RGB05BS - black)
- 4/6-channel DMX
- Blackout/Dimmer/Strobe
- Individual control of Red, Green and Blue LEDs

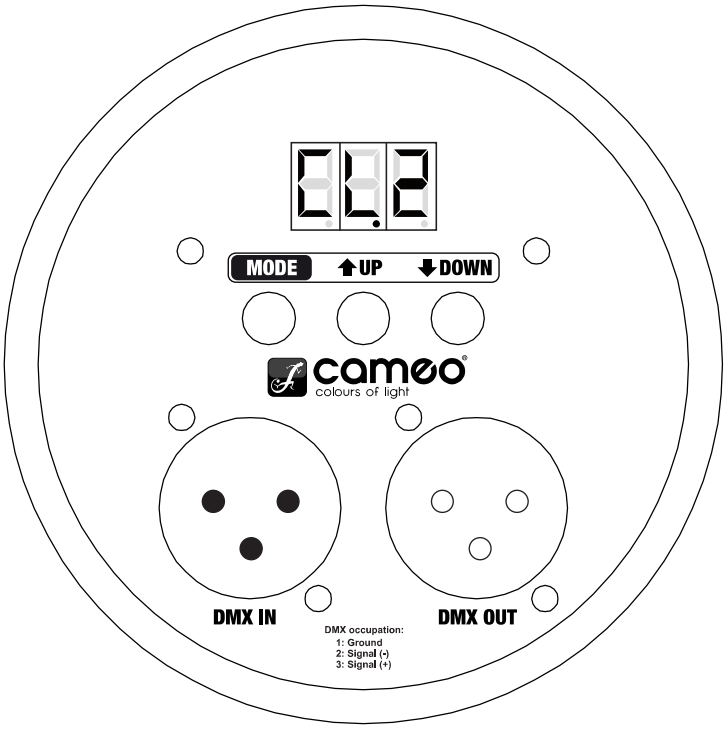
**FEATURES**

- 151 LEDs: - Red (51), Green (49), and Blue (51)
- Ultra Bright 5mm LEDs
- Sound control via internal microphone
- Colour change speed and strobe effect adjustable via control panel
- Multi-colour changes
- RGB Colour mixing
- Master/Slave functions
- Sound activated
- Rugged compact housing
- Power consumption: 23 W
- Beam angle: 25 degrees
- Long life LEDs

**OPERATING INSTRUCTIONS**

The Cameo PAR 56 CAN is a DMX-512 controllable, full RGB colour mixing spot made up of high efficiency and super bright 5mm LED's. There are three colour groups (red, green and blue) whose intensity can be controlled individually allowing the creation of an unlimited range of colours. The Cameo LED light 56 will operate in Stand-alone, Master/Slave, Sound activated and via DMX-512 control.

## **BACK** PANEL:


MODE
UP
DOWN
cameo
colours of light
DMX IN
DMX OUT
DMX occupation:
1: Ground
2: Signal (-)
3: Signal (+)

## **MODE** SELECTION:

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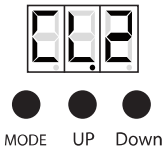
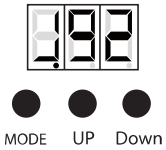
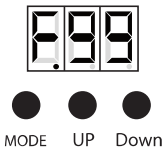
**STATIC COLOUR MODE:**
Press the mode button and use the up and down buttons to select one of the 7 desired colours. 1, Red 2, Green 3, Blue 4, Yellow 5, Cyan 6, Purple 7 White



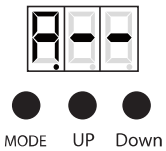

**COLOUR CHANGING MODE**
Press the mode button to select the Colour Change programme. The unit will then run in Colour change mode. Press the up and down buttons to select the colour change speed from 0-99.



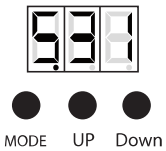

**COLOUR FADING MODE**
Press the mode button to select Fade mode. The unit will then run in colour fade mode. Press the up and down buttons to select the fade speed from 0-99.



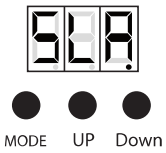

**AUTO RUNNING MODE**
Press the mode button to select Auto mode. The unit will then run automatically through all of the built-in programmes. The run speed can be pre-set via the speed of the colour change and colour fade modes.




**SOUND ACTIVE MODE**
Press the mode button to select sound mode. The unit will then run via the sound. Press the up and down buttons to adjust the sound sensitivity levels.



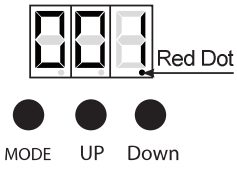

**MASTER/SLAVE MODE**
Link the units together and press the mode button of the slave units to SLA mode. The slave units will follow in sequence with the master unit.



# DMX **CONTROL** MODE:

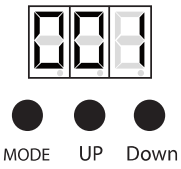


The Cameo PAR 56 CAN has two DMX modes to choose from, 4 channel or 6 Channel. To access the 4 Channel mode, press the mode button to show a red dot illuminated under the first digit of the DMX address. The unit is now ready for use in 4 channel mode




| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| CH1 | 000-255 | RED (0-100%) |
| CH2 | 000-255 | GREEN (0-100%) |
| CH3 | 000-255 | BLUE (0-100%) |
| CH4 | 000-255 | MASTER DIMMER (0-100%) |

To access the 6 Channel mode, press the mode button to show NO red dot under the first digit of the DMX address. The unit is now ready for use in 6 channel mode




| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| CH1 | 000-255 | RED (0-100%) |
| CH2 | 000-255 | GREEN (0-100%) |
| CH3 | 000-255 | BLUE (0-100%) |
| CH4 | 0-255 | Master dimmer (0-100%) |
| CH5 | 0-16<br>17-255 | No function<br>Strobe/Speed Adjust/Sound Sensitivy Adjust |
| CH6 | 0-31<br>32-95<br>96-159<br>160-233<br>244-255 | No function<br>Colour mixing<br>RGB colour change<br>7 colour change<br>Sound activation |

To change from 4 channel to 6 channel mode, press ONLY the mode button repeatedly until you return to the DMX control mode.

**DAISY CHAIN CONNECTION**

1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture
2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Proceed to connect from the output as stated above to the input of the following fixture
and so on.

# DMX **LINKING**:



**DMX-512**
DMX (Digital Multiplex) is a universal protocol used as a from of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data are sent as serial data that travel from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

**DMX LINKING:**
DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Please check out our comprehensive DMX cable choices out of our product lines 3 STAR, 4 STAR and 5 STAR

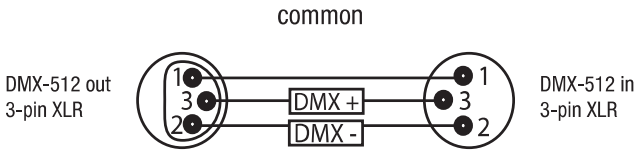
Also remember that DMX cable must be daisy chained and cannot be split.

# DMX **CABLES**:



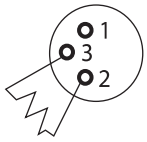
**NOTICE:**

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.




**SPECIAL NOTE: LINE TERMINATION:**

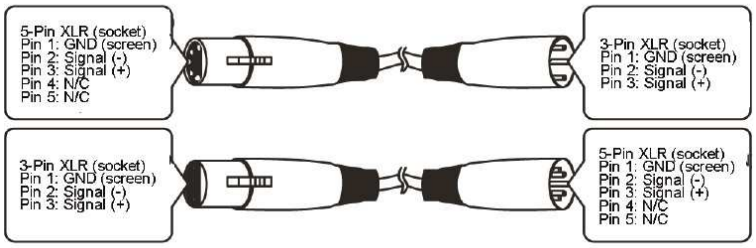
• When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.




Termination reduces signal transmission problems and interferance. It is always advisable to connect a DMX terminator, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (Art. No. K3DMXT3) will decrease the possibilities of erratic behaviour.

• Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The chart below details the correct cable conversion.



# SPECIFICATIONS:



**WEIGHT & DIMENSIONS**

| | |
|---|---|
| Length | 169 mm |
| Width | 210 mm |
| Height | 213 mm |
| Weight | 1.4 kg |

**POWER**

| | |
|---|---|
| AC input | 240 V / 50 Hz |

**FUSE**

| | |
|---|---|
| Main | 20 mm Glass 0.5 A Fast Blow |

**CONTROL & PROGRAMMING**

| | |
|---|---|
| Data input | Locking 3-pin XLR male socket |
| Data output | Locking 3-pin XLR female socket |
| Protocols | DMX-512 USITT |
| DMX channels | 4/6 selectable |

# MANUFACTURER´S DECLARATIONS:



## LIMITED **WARRANTY**

This Limited Warranty applies to the Adam Hall, LD Systems, Defender, Palmer, Cameo and Eminence branded products.

The statutory warranty rights towards the seller are not affected by this guarantee. In fact, it justifies, additional independent warranty claims towards Adam Hall.

Adam Hall warrants that the Adam Hall product you have purchased from Adam Hall or from an Adam Hall authorized reseller is free from defects in materials or workmanship under normal use for a period of 2 or 5 years from the date of purchase.

The Limited Warranty Period starts on the date of purchase. In order to receive warranty services you are required to provide proof of the purchase date. Your dated sales or delivery receipt, showing the date of purchase, is your proof of the purchase date. Should products of the brands named above be in need of repair within the limited warranty period, you are entitled to warranty services according to the terms and conditions stated in this document.

This Limited Warranty extends only to the original purchaser of this Adam Hall branded product and is not transferable to anyone who obtains ownership of the Adam Hall branded product from the original purchaser. During the Limited Warranty Period, Adam Hall will repair or replace the defective component parts or the product. All component parts or hardware products removed under this Limited Warranty become the property of Adam Hall.

In the unlikely event that your Adam Hall product has a recurring failure, Adam Hall, at its discretion, may elect to provide you with a replacement unit of Adam Hall´s choice that is at least equivalent to your Adam Hall branded product in hardware performance.

Adam Hall does not warrant that the operation of this product will be uninterrupted or error-free. Adam Hall is not responsible for damage that occurs as a result of your failure to follow the instructions included with the Adam Hall branded product.

This Limited Warranty does not apply,
- to wear parts (e.g. accumulator)
- to any product from which the serial number has been removed or that has been damaged or rendered defec tive as the result of an accident
- in case of, misuse, abuse, or other external causes
- by operation outside the usage parameters stated in the user´s documentation shipped with the product
- by use of spare parts not manufactured or sold by Adam Hall
- by modification or service by anyone other than Adam Hall

These terms and conditions constitute the complete and exclusive warranty agreement between you and Adam Hall regarding the Adam Hall branded product you have purchased.

# **MANUFACTURER´S** DECLARATIONS:

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## LIMITATION OF **LIABILITY**

If your Adam Hall branded hardware product fails to work as warranted above, your sole and exclusive remedy shall be repair or replacement. Adam Halls' maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repair or replacement of any hardware components that malfunction in conditions of normal use.

Adam Hall is not liable for any damages caused by the product or the failure of the product, including any lost profits or savings or special, incidental, or consequential damages. Adam Hall is not liable for any claim made by a third party or made by you for a third party.

This limitation of liability applies whether damages are sought, or claims are made, under this Limited Warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim. This limitation of liability cannot be waived or amended by any person. This limitation of liability will be effective even if you have advised Adam Hall of an authorized representative of Adam Hall of the possibility of any such damages. This limitation of liability however, will not apply to claims for personal injury.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for a full determination of your rights.

## REQUESTING **WARRANTY-SERVICE**

To request warranty service for the product, contact Adam Hall or the Adam Hall authorized reseller from which you purchased the product.

## **EC DECLARATION** OF CONFORMITY

These devices meet the essential requirements and further relevant specifications of Directives 2004/108/EC (EMC) and 2006/95/EC (LVD). For more information, see www.adamhall.com.

## **CORRECT DISPOSAL** OF THIS PRODUCT (ELECTRICAL WASTE)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an enviromentally friendly manner.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

# **MANUFACTURER´S** DECLARATIONS:



## **WEEE**-DECLARATION

Your LD-Systems product was developed and manufactured with high quality materials and components wich can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.
Please dispose of this product by bringing it to your local collection point or recycling centre for such equipment. This will help to protect the environment in which we all live.

## **BATTERIES** AND ACCUMULATORS

The supplied batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose exhausted batteries.

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